First Alert®

Indoor/Outdoor Analog Wired Cameras with 15" LCD Monitor and Built-In DVR
Model 1501

USER'S MANUAL

WELCOME

Thank you for choosing First Alert for your security needs!

For more than half a century, First Alert has made the home-safety and security products that make your job easier. Our products are built to the highest standard which has earned us a leadership role in the home-safety and security product categories. We are committed to serving our customers, from the professionals who install our products, to the families and businesses who count on them. First Alert has been helping families and businesses stay safe for over 50 years. By having a First Alert Security System, you're taking the first step in protecting your home or business from damage or theft. We're watching, even when you're not.

This manual is written for the 1501 15" LCD Monitor with Built-In DVR. It was accurate at the time it was completed. However, because of our ongoing effort to constantly improve our products, additional features and functions may have been added since that time and on-screen displays may change. We encourage you to visit our website at www.firstalert.com to check for the latest manuals (English and Spanish), firmware updates, downloads, other security camera products and announcements.
You'll find this product line under Products >> Security Cameras >> Wired Cameras.

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Made in China

M08-0245-004

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Safety

SAFETY PRECAUTIONS

- Do not drop, puncture, or disassemble the camera.
- Never tug on the power adapter. Use the plug to remove it from the wall.
- Do not expose the camera to high temperatures.
- For your own safety, avoid using the camera when there is a storm or lightning.
- Use the device with care. Avoid pressing hard on the camera body.
- Do not crush or damage the power cable.

FCC COMPLIANCE

FCC Compliance Class B Digital Device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that of the receiver.
- Consult the dealer or an experienced radio or TV technician for help.

Notice: Only peripherals complying with FCC limits may be attached to this equipment. Operation with non-compliant peripherals or peripherals not recommended by First Alert / BRK Brands, Inc. is likely to result in interference to radio and TV reception. Changes or modifications to the product, not expressly approved by First Alert / BRK Brands, Inc., could void the user's authority to operate the equipment. Important: The information shown in the FCC Declaration of Conformity paragraph below is a requirement of the FCC and is intended to supply you with information regarding the FCC approval of this device. The phone number listed below is for FCC related questions only and not intended for questions regarding the connection or operation for this device.

FCC Declaration of Conformity for devices with the FCC logo
Responsible Party: First Alert / BRK Brands, Inc.
Address: 3901 Liberty Street Rd.
Aurora, IL 60504-8122
Telephone: (630) 851-7330
Product / Model: 1501

We, First Alert / BRK Brands, Inc. declare under our sole responsibility that the device to which this declaration relates: Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Certification (if applicable)
This device contains a radio transmitter. Accordingly, it has been certified as compliant with 47 CFR Part 15 of the FCC Rules for intentional radiators. Products that contain a radio transmitter are labeled with an FCC ID.

DISPOSAL

These symbols indicate that it is prohibited to dispose of these batteries in the household waste. You can take spent batteries that can no longer be charged to the designated collection points in your community.

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Getting to Know Your Model 1501 System

Congratulations on purchasing your First Alert Security Camera product. First Alert has been helping families and businesses stay safe for over 50 years. By having a First Alert Security Camera, you're taking the first step in protecting your home or business from damage or theft. We're watching, even when you're not.

CHECK PACKAGE CONTENTS

After unpacking the carton, check the contents for damage. Contact the manufacturer immediately if any part is missing or damaged.

- 500GB H.264 web-ready DVR system with 15" LCD monitor (1)
- Wired indoor/outdoor cameras (4)
- Camera stands (4)
- Mounting kits (4)
- 60 ft BNC cables (4)
- Remote control (1)
- Mouse (1)
- DC power splitter (1)
- Power supply (2)
- Installation CD (1)
- User's Manual (1)

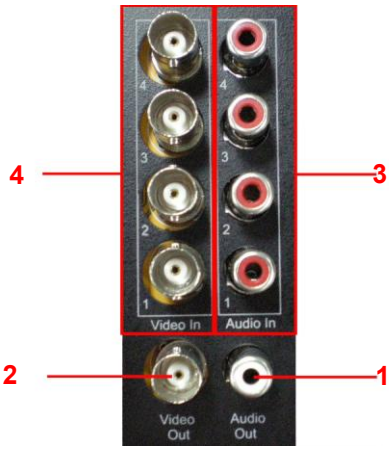
FEATURES

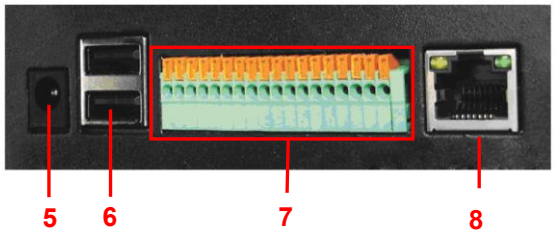
- 15” LCD monitor with built-in DVR
- Equipped with 500GB hard drive
- H.264 compression format
- Mobile phone / web-ready system
- Includes 12 infrared LEDs for night vision
- Indoor/outdoor cameras
- Includes 60 ft BNC cables

ABOUT THE MONITOR-DVR

FRONT PANEL

REAR PANEL





① Audio Output

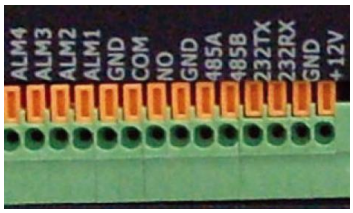
② Video Output

③ Audio Input (1–4)

④ Video Input (1–4)

⑤ DC 12V Power Socket

⑥ USB Ports



⑦ Alarm Input (1-4)
GND: Ground
NO/COM: Alarm Output
485A/B: PTZ Control +/-
232TX/RR: RS232 connector to PC
+12V, 100 mA connectors to DC power relays

⑧ RJ45, Ethernet 10/100Base-T

About the Remote Control

PTZ	Open PTZ control window*
Keyboard 0-9	Input numbers and letters; in preview mode select channels
DN	Open Device Number input dialog box
	Back space to delete current input
	Page up; turn up
	Page down; turn down
	Move cursor up
	Move cursor down
	Move cursor left
	Move cursor right
	Enter
	Return to previous menu; exit operation
	Open main menu
	Switch display modes (quad/single picture view); press with direction key to choose video output (CVBS, VGA, YUV)
	Select next channel to view when in full screen
	Open video file management dialog box
	Open system information dialog box
	Turn system audio output ON/OFF
	Clear system alarm history information
	Play/Pause
	Select rewind speed (1x, 2x, 3x, or 4x)
	Select forward speed (1x, 2x, 3x, or 4x)

* Cameras supplied with 1501 system are not equipped with PTZ feature.

About the Cameras and Mounting Kits

The Model 1501 security system includes four wired-indoor/outdoor color CCD security cameras, four camera stands, mounting kits and 60 ft of BNC cables for each camera.

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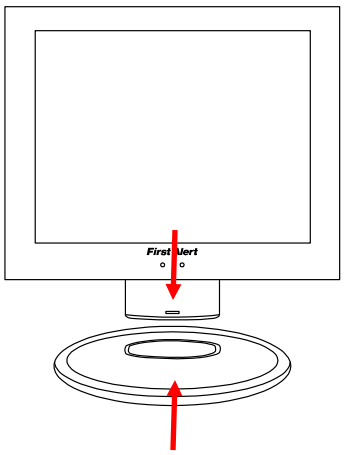
Setting Up Your Model 1501 System

GENERAL PRECAUTIONS

- Use only the two power supplies provided with the system.
- Unplug the power supplies when the system is not in use for extended time periods.
- Do not place any of the equipment near a radiator, vent, or other place where it might be exposed to heat, moisture, dust, vibrations or strong magnetic fields.
- Place the monitor in a well-ventilated location to prevent overheating.
- Do not attempt to repair the equipment. Contact a qualified technician or the dealer for service. Any change or modification may damage the equipment and invalidate the warranty.

ASSEMBLING AND CONNECTING THE MONITOR- DVR



1 Connect the mouse to the USB port on the monitor-DVR.

2 Place the monitor-DVR on its base and snap it into locked position.

3 Connect the cable of the power supply adapter to the DC 12V connector on the bottom of the monitor-DVR. Plug the power supply into a receptacle outlet.

The POWER indicator light on the front panel will light when power is applied. When system initialization (boot up) is complete, the image from each active camera will display on the quad-screen monitor.

INSTALLING AND CONNECTING THE CAMERAS

1 Select the position for the camera and install a mounting bracket (supplied).

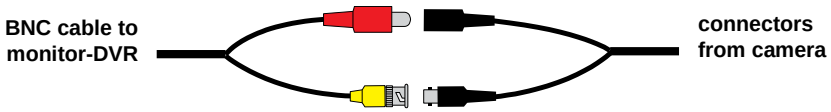
Screws and anchors are supplied. Use an appropriate screw type for the mounting surface.

2 Screw the camera on the bracket. Tighten the lock nut to secure the camera on the bracket.

3 Adjust camera to the proper view angle. Make sure the lens is upright relative to your subject. Tighten the thumb bolts.

4 Connect the power and video connectors to the corresponding connectors on the BNC cable (supplied).

The cables are not weather resistant and should be sheltered from moisture, rain, and sunlight.



5 Connect the BNC and power cable connectors to the power and video connectors at the monitor-DVR.

Note: When installing cameras on an external wall, pass the power cable through the wall as close as possible to the cameras to reduce the chance of tampering with the cables. After drilling any hole though an external wall for cable, make sure the hole is sealed up around the cable using a sealant.

CONNECTING THE MONITOR-DVR TO AN EXTERNAL CONNECTION

EXTERNAL HDD

The Model 1501 system has an internal SATA 500GB HDD (hard disk drive), which can be expanded with an external SATA HDD to 1TB by setting the jumper on SATA I, limit to 1.5GB/s operation mode. Connect the HDD using the available USB port on the bottom of the monitor-DVR.

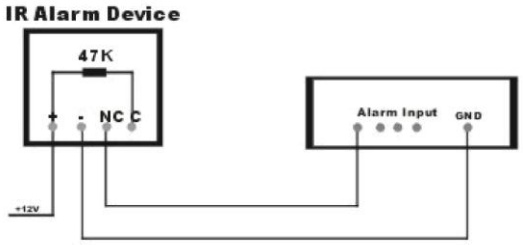
INTERNET

Use the standard RJ45 connection on the bottom of the monitor-DVR to connect to a computer or directly to the Internet. See the chapter on *IE Operation*.

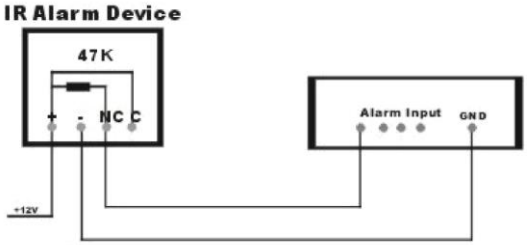
ALARM INPUT AND OUTPUT

Typical alarm sensor connections follow. Use the wiring port on the bottom of the monitor-DVR to make the connections.

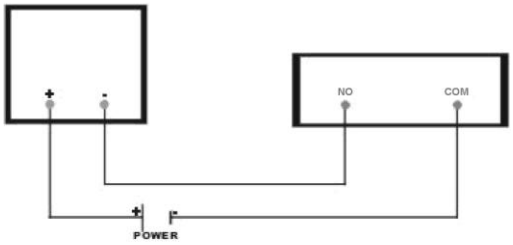
Normal-Close Connection



Normal-Open Connection



Alarm Output Connection



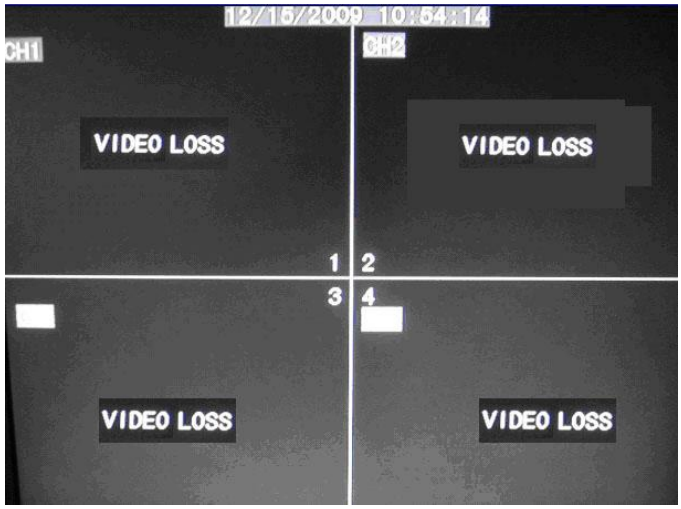
Mouse Operations

In addition to operating the system by using the buttons on the remote control, the system can be operated using a mouse. This chapter provides a quick start overview of the operating commands available using the mouse functions. For detailed descriptions of the menu options, see the next chapter Operating Menus.

SURVEILLANCE INTERFACE

Connect the DC 12V power supply adapter to the monitor-DVR to power-up the system. The power LED on the monitor will light and the surveillance interface will display on the screen.

If video input is normal, there will be a corresponding channel picture on the surveillance interface. If a camera is not powered-up, the channel image will display "Video Loss" instead of live recording. If the system has been programmed to start recording at startup or record on a time schedule, the system will record automatically.



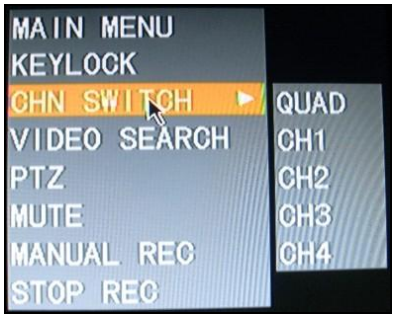
Double click the left mouse button on any channel to display a full-screen image of that channel. Double click again to return to quad (4-up) display.

MOUSE MENUS

Click the right mouse key to open the Shortcut Menu. Scroll the cursor to highlight an option and click the left mouse key to open the sub-menu.

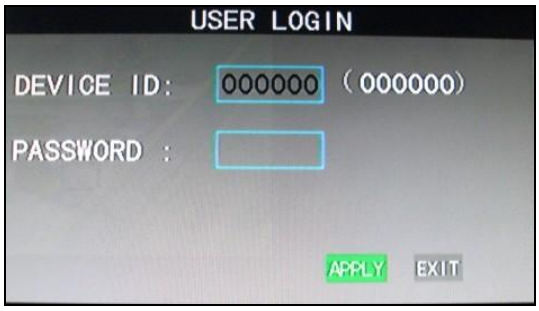
SHORTCUT MENU

Click the right mouse key to open the Shortcut menu from the surveillance interface. Click the left mouse key to select an option: go to the Main menu; lock the system; change the channel; search the recording; control PTZ*; mute the sound; and manually begin and stop recordings.



MENU LOCK

Click right key on the surveillance interface to the Shortcut menu. Choose KEYLOCK to lock the menu. To unlock the system, enter the user password.



Note: For first use, set ENABLE on the user login to set the user's password and administrator password. The user has only the right to enter the record search menu; the administrator has rights to all operations. See the next chapter for instructions to set/change a password.

* Cameras supplied with 1501 system are not equipped with PTZ feature.

PTZ CONTROL (OPTION)

The PTZ is an optional feature available on some cameras. This feature is not available on the cameras supplied with the Model 1501 system, but the system software is PTZ-ready.

Click right key on the surveillance interface to open the Shortcut menu. Choose PTZ to enter the PTZ control interface. Drag the cursor to adjust the PTZ moving speed. Use the direction keys to move the PTZ up/down/left/right. Click + / − to adjust the zoom, focus, and aperture.

MANUAL RECORDING

Click right key on the surveillance interface to open the Shortcut menu and choose MANUAL RECORDING. The priority level of manual recording is lower than the alarm recording and schedule recording. You can start the manual recording after the alarm recording and scheduled recording have stopped.

STOP RECORDING

Click right key on the surveillance interface to open the Shortcut menu. Choose STOP RECORDING to stop manual recording. This operation is available only for manual recording.

Operating Menus

This chapter provides information about the menu screens displayed on the LCD monitor. The menus are used to control the various functions of the DVR system. The user selects options from a series of menus and executes the actions by using the keypad on the DVR or the remote control.

MAIN MENU

Use the Main Menu to access all the operating and programming menus.

- Search
- Record
- HDD – hard disk management
- Basic
- Advance

Access the Main Menu from the surveillance interface by clicking the right mouse key to open the Shortcut Menu and then choosing MAIN MENU. If the system interface is locked, input the password to unlock it.

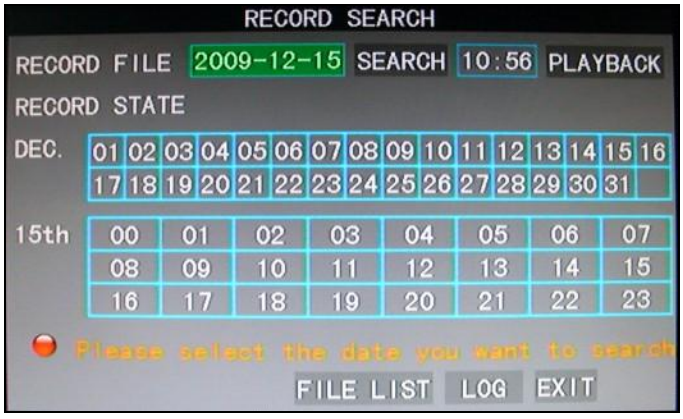
SEARCH

Access the Record Search menu from the Main Menu.

Use this menu to search for recordings made on a specific date. Double click a time box (hourly increments for the date selected) to select video for that hour. Click SEARCH to search all files. Click PLAYBACK to play the video.

RECORD SEARCH

Click right key on the surveillance interface to open the Shortcut menu. Choose RECORD to search and playback the recording.



Note: Green means normal recording. Red means alarm recording. No color means no recording.

FILE LIST

Choose a date from the Record Search menu and select the FILE LIST to show a detailed list of videos for that date. Select the channel (CHN SWITCH) and type of video to focus the search.

CH	Channel on which the video was recorded
TIME	Time period covered by the video
SIZE	Size of video file (Mb)
TYPE	Type of video recording (normal, alarm)
BAK	(Backup) Click box to export selected video file to USB storage

To playback a file:

1. Use the cursor to select a file.
2. Click to playback.

   Note: If "Record Time" was selected in the Basic Setup menu, date/time will show when the video plays.

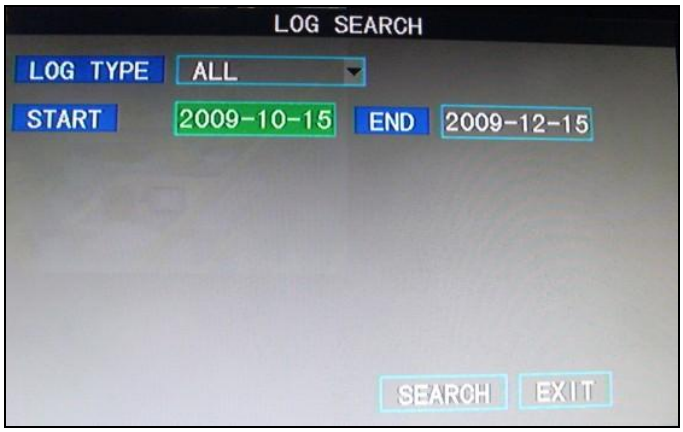
3. Click "Slow" to play the video slowly. Click "Forward" or "Reverse" to scan the video. Click "Pause/Step" to pause and play the video frame by frame. Click X to exit from playback and return to the former menu.
4. Returns to File List display when playback is finished.

To backup a file:

1. Select a video file (check in box).
2. Click BACKUP to start backup via USB to storage device.
3. Prompt box shows backup progress.

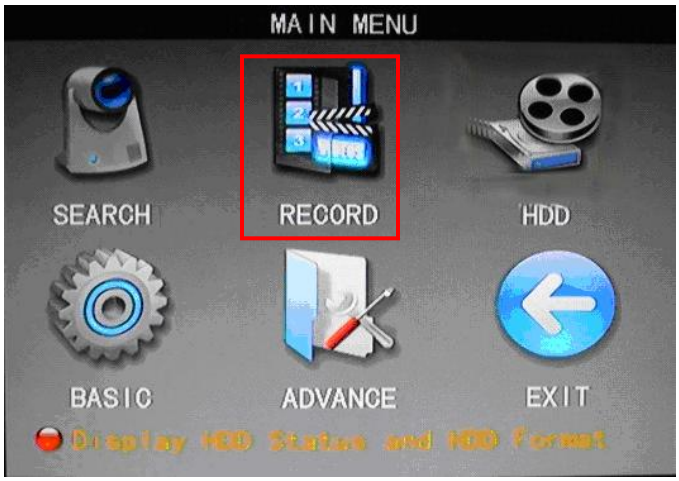
LOG SEARCH

Choose a date from the Record Search menu and select LOG SEARCH. Choose the log date and type. Click SEARCH to check the recording logs.



RECORD

Access the Record Search menu from the Main Menu.



Use this menu to set the recording parameters for each video channel.

CHANNEL	ON means the channel is enabled for recording. OFF means the channel is disabled for recording.
RESOLUTION	Select resolution: HIGHEST, HIGH, or NORMAL.
QUALITY	Set stream size for video quality: BEST, FINE, or NORMAL.
AUDIO	Select ENABLE for audio recording on all channels. Select DISABLE for no audio recording.
REC. MODE	Select POWER UP to begin recording immediately at DVR startup; select Timer Record to open Schedule menu and set recording times.
REC. SIZE	Select the recording time length: 15, 30, 45, and 60 minutes.
DEFAULT	Click to return to factory set parameters.
APPLY	Click to save setup parameters and return to Main Menu.
EXIT	Click to keep existing setup parameters and return to Main Menu.

Schedule

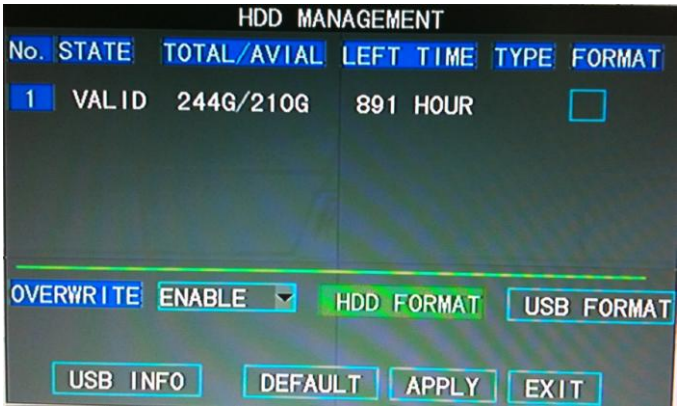
Use the Schedule menu to set specific recording times and durations. Select the channel (1, 2, 3, 4, or all). Click the box corresponding to the recording time and type (blank means no recording, green means normal recording mode and red means alarm recording mode or motion detection).

HDD MANAGEMENT

Access the HDD Management menu from the Main Menu.

Use this menu to check hard drive status, capacity, free space, and usage. The system is equipped with a 500GB hard drive, but can support up to a 1000GB hard drive.

Note: Stop recording before formatting the hard drive. Formatting will erase all information on the hard drive.



No.	Number assigned to hard drive (internal or external)
STATE	Available, Normal, Unformatted
TOTAL / AVAIL	Total amount of storage space on hard drive and amount of storage available at the picture quality selected
LEFT TIME	Recording time available at the picture quality selected
FORMAT	Click to format selected hard drive
OVERWRITE	ENABLE means if the HDD space is less than 4G, it will delete HDD earliest recording file and stop deleting when the space is 10G DISABLE means if the HDD space is less than 500M, it will stop recording and display a prompt in the live view “Please shutdown and replace HDD”
HDD FORMAT	Click to format DVR hard drive
USB FORMAT	Click to format device attached to USB (e.g., flash drive)
DEFAULT	Click to apply factory-set parameters
APPLY	Click to save setup parameters and return to Main Menu
EXIT	Click keep existing setup parameters and return to Main Menu

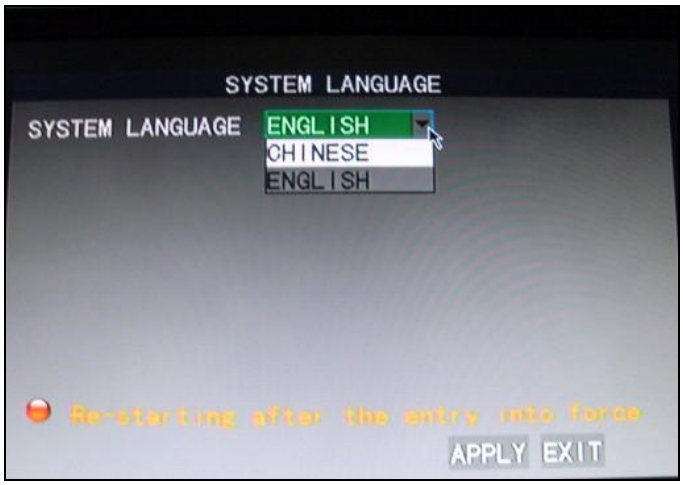
BASIC

Access the Basic Setup menu from the Main Menu.

Use this menu to set the system language, date and time, password, display parameters, and video and audio parameters.

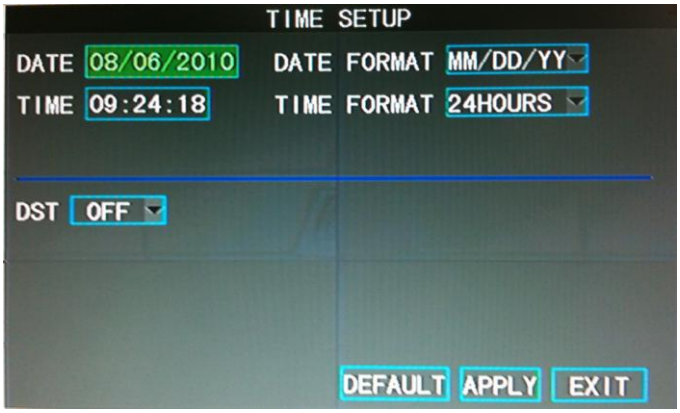
LANGUAGE

Click the LANGUAGE icon on the Basic Setup Menu to display the system language setup menu. This DVR supports English and Chinese. Click APPLY to save the change and reboot the system.



DATE/TIME

Click the DATE/TIME icon on the Basic Setup Menu to display the time setup menu. Use this menu to set the date, date format (MM/DD/YY), time, time format (12 hours or 24 hours), and time zone, including Daylight Saving Time option. Click APPLY to save the new parameters.



PASSWORD

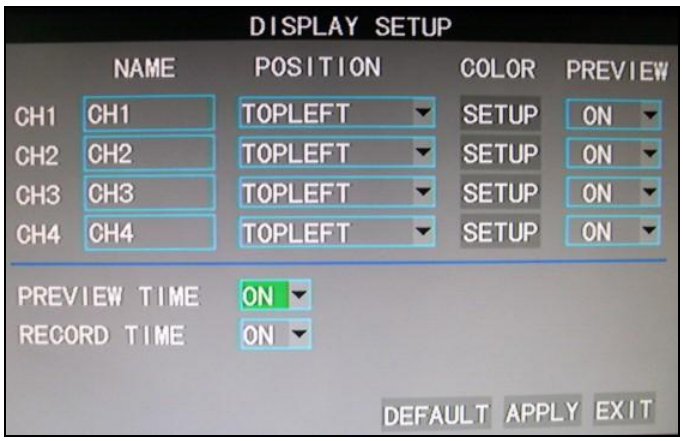
Click the PASSWORD icon on the Basic Setup Menu to display the password security setup menu. Click APPLY to save the new parameters.

When Password is set to DISABLE, a login password is not required to use the system. When Password is set to ENABLE, a login password is required for both users and the system administrator.

Note: When passwords are used, anyone using the system must enter a user login and will only be able to "Search Record" and "Playback. Other operations will not be allowed.

DISPLAY

Click the DISPLAY icon on the Basic Setup Menu to display the setup menu. Click APPLY to save the new parameters.



NAME Set the channel name

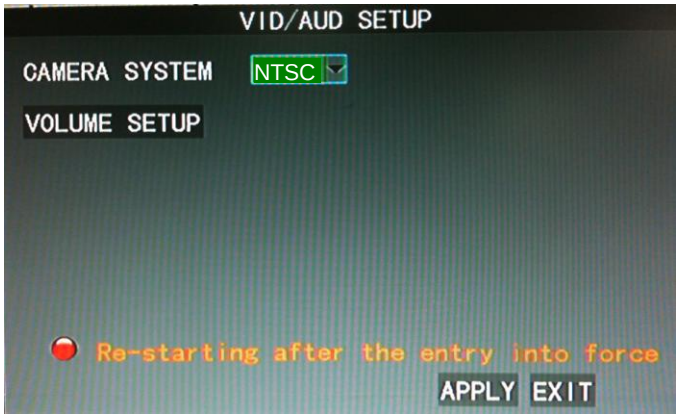
POSITION Set the location of the channel video image in the surveillance interface

COLOR	Click to access Color Setup menu to set the video chromaticity, brightness, contrast, and saturation for each channel. Use the sliding scale to set video brightness, contract, and saturation.

PREVIEW	ON means the channel is allowed to view live mode, OFF means the channel is not allowed.
PREVIEW TIME	ON means time/date information is placed in live-mode view, OFF means time/date is not placed.
RECORD TIME	ON means time/date information is placed in record-mode view, OFF means time/date is not placed.

VIDEO/AUDIO

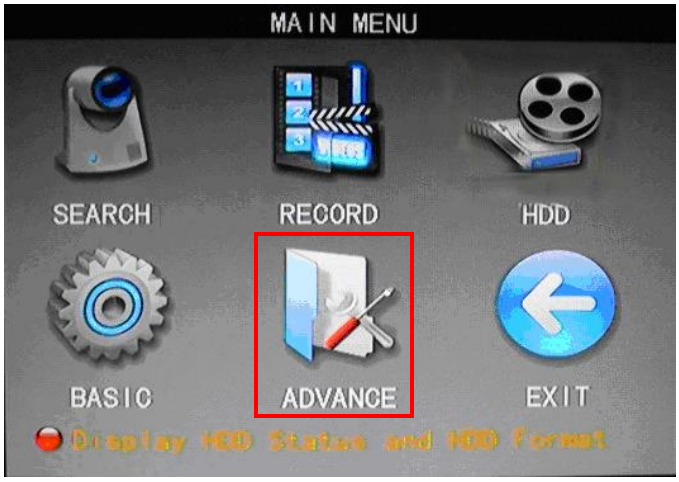
Click the VIDEO/AUDIO icon on the Basic Setup Menu to display the setup menu. Click APPLY to save the new parameters.



VGA RESOLUTION	Select 800x600, 600x480, or 1024x768
CAMERA SYSTEM	Select NTSC signal (if camera system is changed, DVR will reboot automatically)
VOLUME SETUP	Drag cursor to adjust volume

ADVANCE

Access the Advanced Setup menu from the Main Menu.

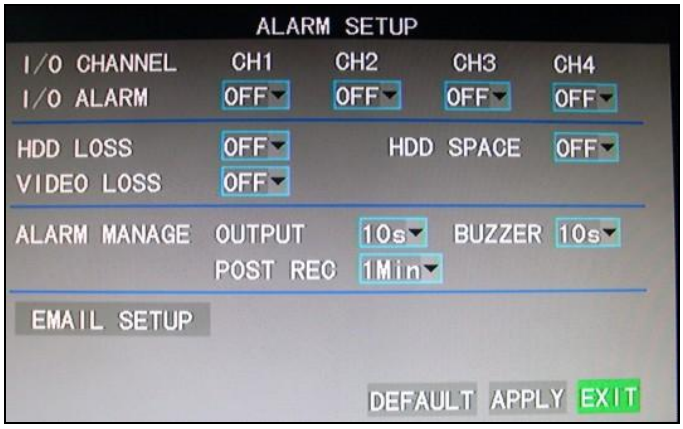


Use this menu to view system information, set the system alarm and email notification parameters, and set motion detect, mobile, system maintenance, PTZ* and network parameters.

* Cameras supplied with 1501 system are not equipped with PTZ feature.

ALARM

Click the ALARM icon on the Advanced Setup menu to display the setup menu. Click APPLY to save the new parameters.



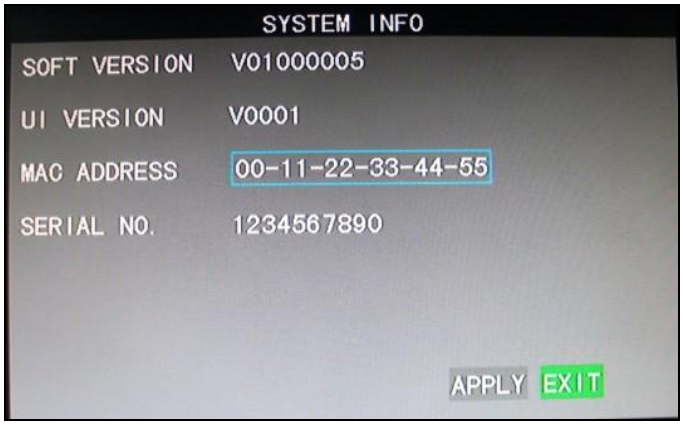
I/O CHANNEL	Video channel.
I/O ALARM	Select alarm input contact configuration: NO (normal open), NC (normal closed), or OFF.
HDD LOSS	ON means the system will sound an alarm if there is no HDD, the HDD is unformatted, or unavailable, and it will display an "H" in the live view. OFF means the system will display an "H" in the live view, but no alarm will go off if there is no HDD or the HDD is unformatted or unavailable.
HDD SPACE	ON means the HDD is full (overwrite must be Disabled) and will sound an alarm. OFF means the HDD is full (overwrite must be Disabled) and will not sound an alarm.
VIDEO LOSS	ON means any channel that has no video input; "video loss" will display in live view and sound an alarm. OFF means one channel has no video input; it will display "video loss" in live view and not sound an alarm.
ALARM MANAGE - OUTPUT	Select alarm output time option: 0, 10, 20, 40, or 60 seconds. (Alarm output contact closed time. NO and COM contacts).
ALARM MANAGE - BUZZER	Select buzzer calling time option when alarm is triggered: 0, 10, 20, 40, or 60 seconds.
ALARM MANAGE - POST REC	Select recording time option: 30 seconds, 1 minute, 2 minutes, or 5 minutes.

E-MAIL Setup

The system can send an email notification with a JPEG snapshot for triggered events on the system. Use the E-mail Setup menu to set the system parameters. Click APPLY to save the new parameters.

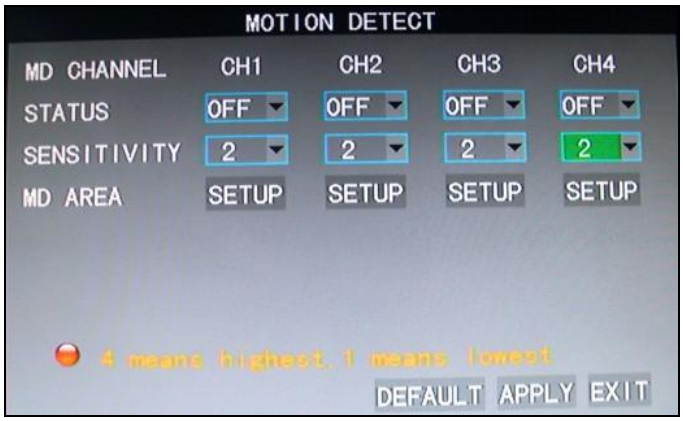
SYSTEM INFORMATION

Click the INFO icon on the Advanced Setup menu to display the information screen. This interface shows system software/firmware versions, MAC address, and system serial number.



MOTION DETECT

Click the MD (Motion Detect) icon on the Advanced Setup to display the set up screen. Click APPLY to save the new parameters.

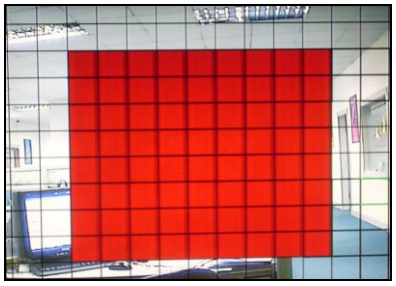


CHANNEL Set motion detect for each channel

STATUS Select motion detect ON or OFF

SENSITIVITY Select sensitivity: 1–4 (low–high)

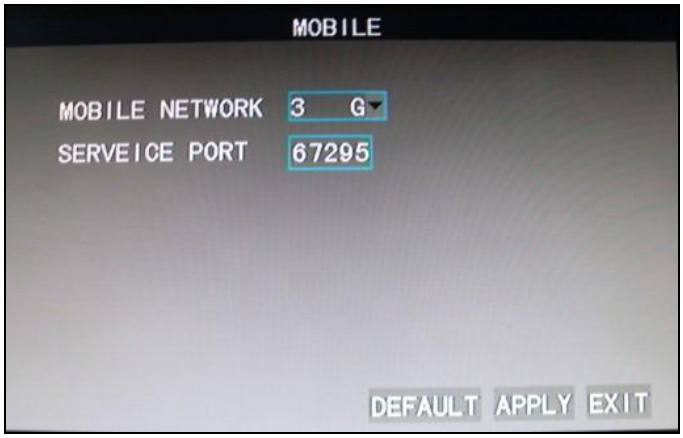
MD AREA Select the motion detect area. Each channel has 12x15 small panes.



Red area means activated motion detection; transparent block means not activated.

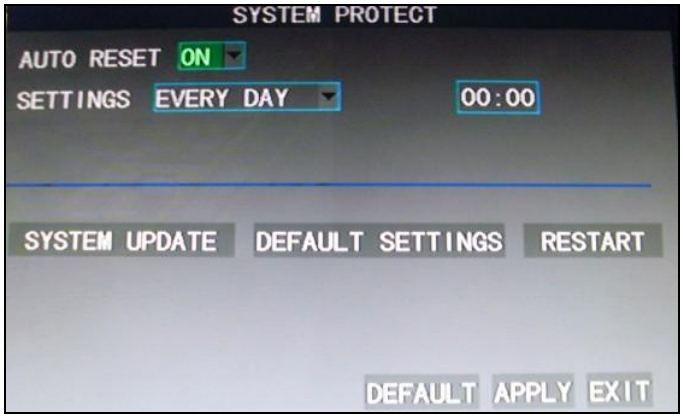
MOBILE

Click the MOBILE icon on the Advanced Setup to display the set up screen. Select the mobile network option: 2.5, 2.75G, or 3G. The transport speed in 2.5G mobile network is 3 fps and the picture resolution is 160 x 120. The transport speed in 2.75G is 10 fps in 3G is 15 fps. Click APPLY to save the new parameters.



SYSTEM MAINTENANCE

Click the MAINTAIN icon on the Advanced Setup to display the set up screen. Click APPLY to save the new parameters.



AUTO RESET	Select ON to automatically restart system at scheduled time
SETTINGS	Select update frequency
SYSTEM UPDATE	Click to updating system firmware
DEFAULT SETTING	Click to recover factory settings
RESTART	Click to reboot the system

To update system:

1. Insert an empty flash disk into the USB port.
2. Create a folder on flash disk called "DVR Upgrade."
3. Copy the firmware file to DVR Upgrade folder of the flash disk.
4. Click SYSTEM UPDATE on the System Maintenance screen to upgrade firmware, and display the progress of the system upgrade.

   Note: Do not remove USB flash drive while the upgrade process is taking place.
5. System automatically reboots.

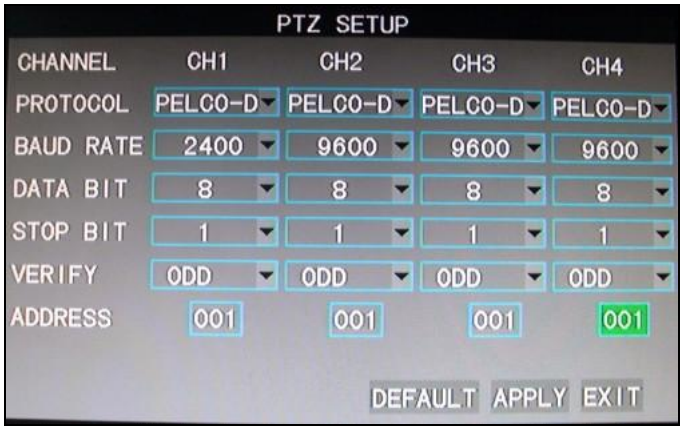
To restore factory settings;

1. Click DEFAULT SETTING on the System Maintenance screen.
2. Click APPLY. Prompt box displays: "Will lose current para, backup factory set confirm."
3. Click OK to recover the factory settings.

PTZ SETUP (OPTION)

The PTZ is an optional feature available on some cameras. This feature is not available on the cameras supplied with the Model 1501 system, but the system software is PTZ-ready.

Click the PTZ icon on the Advanced Setup screen to display the PTZ setup screen. The parameters for each channel are set separately. Click APPLY to save the new parameters.

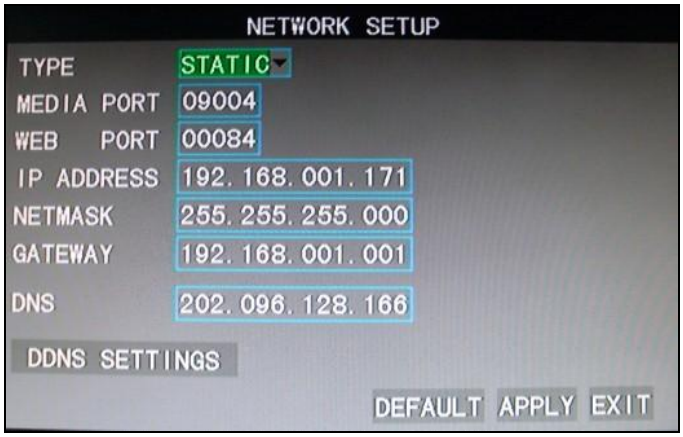


CHANNEL	Channel of PTZ connected
PROTOCOL	Select protocol: Pelco-D, Pelco-P (default is Pelco-D)
BAUD RATE	Select baud rate: 1200, 2400, 4800, or 9600
DATA BIT	Select data bit: 5, 6, 7, or 8 (default setting is 8)

STOP BIT	Select stop bit: 1 or 2 (default setting is 1)
VERIFY	Select verify: None, Odd, Even, Mark, or Space (default setting is None)
ADDRESS	Enter PTZ code; refer to PTZ camera instruction manual

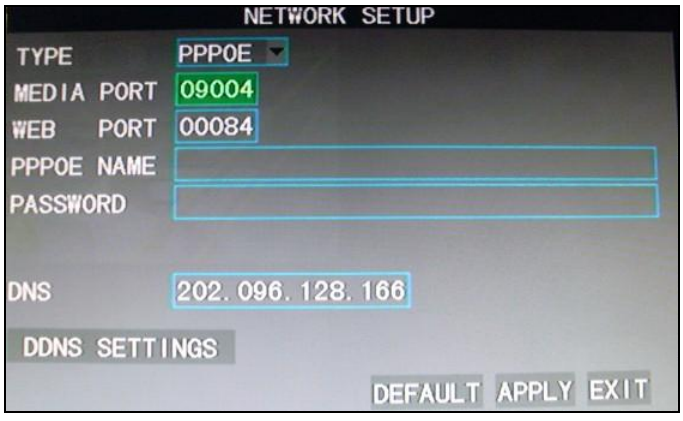
NETWORK SETUP

Click the NETWORK SETUP icon on the Advanced Setup screen to display the set up screen.



Three TYPE options are available:

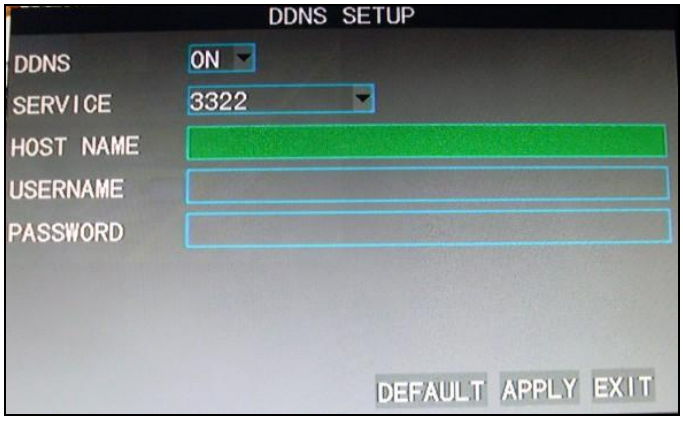
- **DHCP**
  Server automatically assigns IP address for the DVR.
- **Static**
  Set the DVR IP, Netmask, Gateway Media Port, and Web Port parameters.
- **PPPOE**
  Enter the username and password of the Internet service used, click APPLY, and reboot the system. After rebooting, the device sets PPPOE as default network type and IP address will be configured as the dynamic IP address of the WAN.



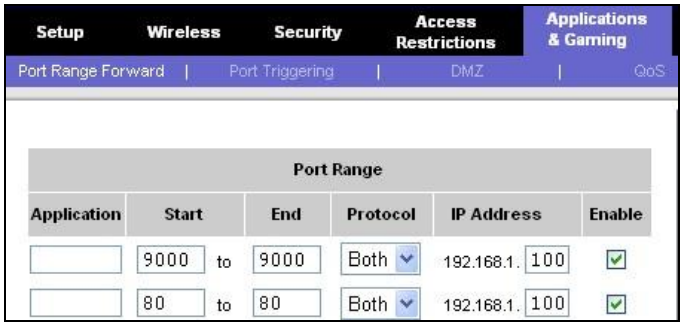
DDNS Setup

DDNS allows access to your network using domain names instead of IP addresses. The service manages changing IP address and updates your domain information dynamically. Sign up for the service through www.TZO.com or www.DynDNS.org.

The DVR can be accessed remotely via a network browser, if DDNS service is used. Set the DNS network router number in the Network Setup menu and then click DDNS Setup to turn on and set the required DDNS parameters. Model 1501 DVR supports three DDNS services: 3322, dyndns, and perfecteyes.



If system accesses the network is through a router, it is necessary to map the client-side port and web port. The client-side port range is 9000 and the web port range is 80. The LAN IP is 192.168.1.100. It is also necessary to apply a dynamic domain name, such as: dyndns.



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IE Operation

This chapter describes the browser software that can be installed on a PC and used to record, playback, and search video segments.

DOWNLOAD AND INSTALL ACTIVEX

Input the DVR IP and port (for example: http://172.18.6.202:8080/) in IE address blank and click ENTER to connect the DVR. The PC will download and install ActiveX automatically

Note: If ActiveX download is not successful, check the IE Security Level and Firewall Setting.

USER LOGIN

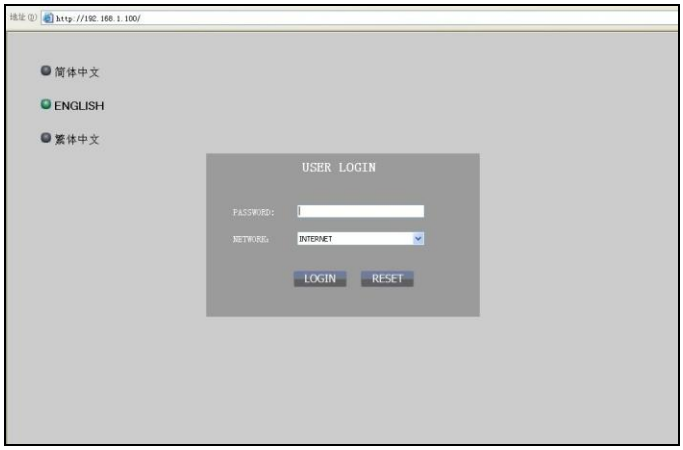
LOGIN

Input the DVR local IP in the IE address. If the port was changed, add the port number after the IP address.

Example: If DVR local IP address is 192.168.3.97 (LAN) and the port is 8088, input http://192.168.3.97:8088.

The default port is 8088, and directly input http://192.168.3.97 to access the DVR. After downloading and installing the ActiveX, the login interface displays. Select English interface in the top left side. Input username and password to access the system.

Note: The username and password can be set in the IE setting.



LIVE

After successful login, enter into real time preview interface and the software will connect video and audio automatically.

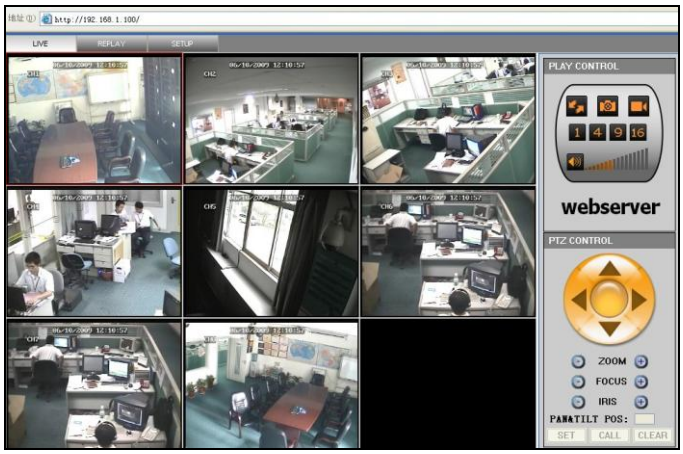
Play Control

	Open or close window
	Capture picture
	Remote recording (to save route refer to "System Setting")
	1, 4, 9, 16, multi-screen display
	Volume

PTZ Control (option)

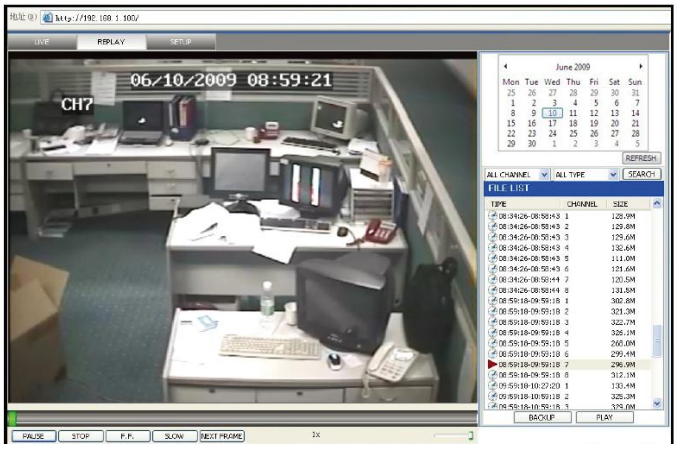
The PTZ is an optional feature available on some cameras. This feature is not available on the cameras supplied with the Model 1501 system, but the system software is PTZ-ready.

Control the camera PTZ: up/down/left/right move, 360-degree automatic rotation, zoom, focus, and aperture.



PLAYBACK

Click PLAYBACK to access the playback interface.

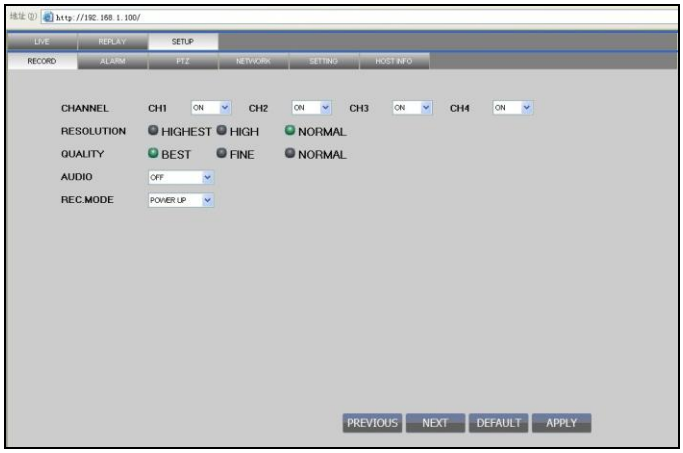


To playback a video:

1. Choose the date, channel, and record type.
2. Click SEARCH to list all eligible files.
3. Select the file to playback and click PLAYBACK to play the file.
4. Click BACKUP to save the file in a specified directory.

SETUP

Click SETUP to access the setup interface. Use this screen to access the Record, Alarm, PTZ*, Network, Setting, and System Information menus. The setup method is the same as the host menu setup method.



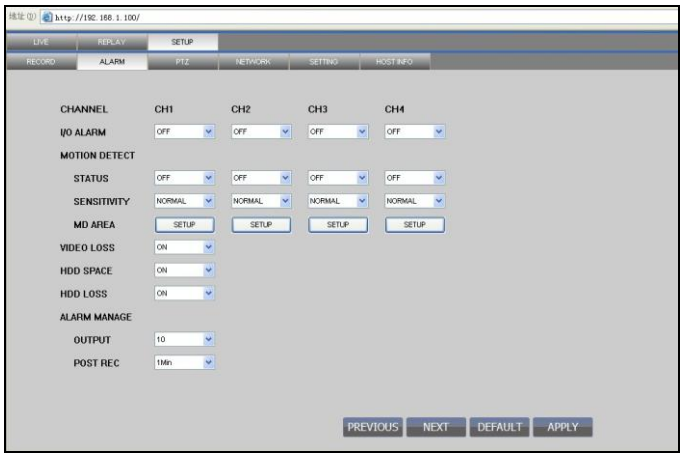
* Cameras supplied with 1501 system are not equipped with PTZ feature.

Record

Click RECORD to access the setup interface. Check the parameter settings in user interface of DVR.

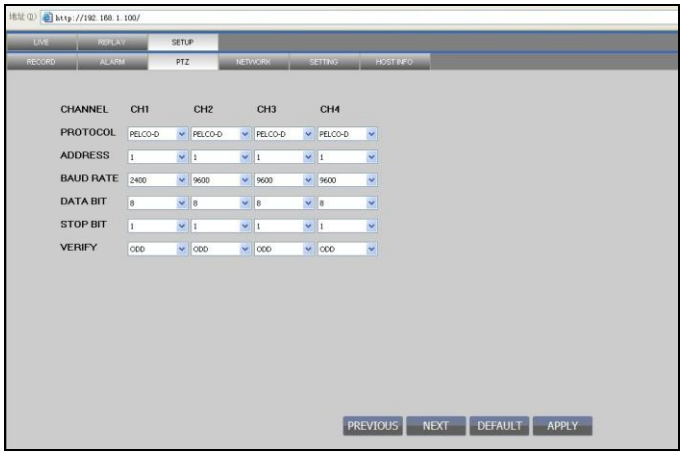
Alarm

Click ALARM to access the setup interface. Check the parameter settings in the user interface DVR.



PTZ*

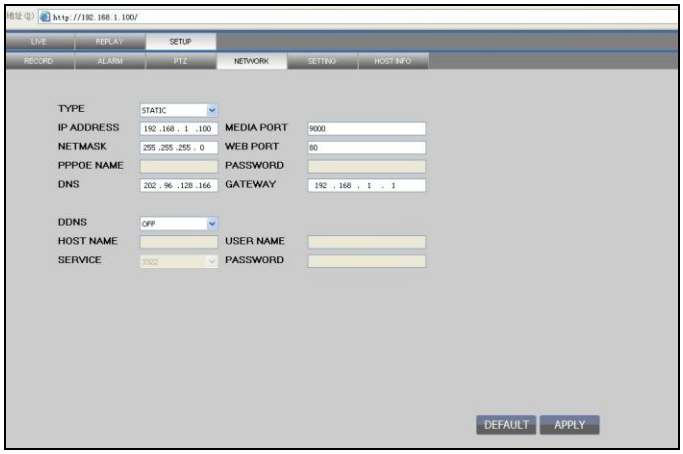
Click PTZ to access the PTZ setup interface.



* Cameras supplied with 1501 system are not equipped with PTZ feature.

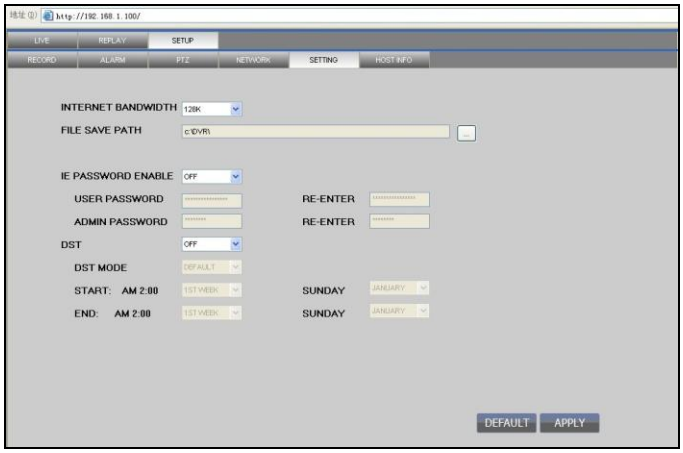
Network

Click NETWORK to access the network setup interface.



Setting

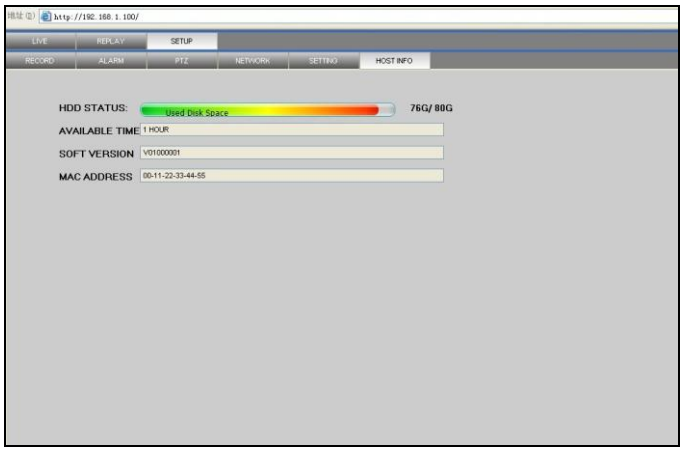
Click NETWORK to access the network setup interface.



- Set the bandwidth in kbps (128k, 192k, 256k, 384k, 512k, or 1024k) to match the Internet traffic. This bandwidth does not include audio.
- Enter file save path location for capturing picture and recording video.
- Enter IE login password and DST settings to match the DVR settings

Host Info

Click HOST INFO to access the Host Info interface. Use this screen to check the HDD status, remaining record time, firmware version, and MAC Address.



First Alert®

Technical Information

Video

Compression	H.264
Total Resource	120 frame (30 fps/ch)
Live Picture Resolution	D1 (704×480)
Playback Resolution	CIF (352×288)
Input	4 CH BNC
Output	1 CH BNC (max. resolution 1024×768)
Video Standard	NTSC

Recording

Record to Video	Manual, schedule, motion
Record to Log	Motion, alarm recording

Storage and Backup

HDD	1 X SATA HDD
HDD Volume	1T
Backup	USB device, remote, local HDD

Network

Net	Ethernet 10/100 Base-T, RJ45
Protocol	UDP/IP, TCP/IP, IGMP (multicast), DNS&DHCP client, PPPOE, DDNS
Internet Viewing	IE browsing
Mobile Surveillance	Supports 3G mobile surveillance

I/O

Alarm Input	4 CH
Alarm Output	1 CH
RS485	1X RS485
RS232	1X RS232
USB	2X USB for USB mouse and other USB device

Control

Remote	Supported
Mouse	Supported USB mouse
Panel	Not supported
Network Control	Supported
Power	DC 12V, 5A
Working Condition	Humidity 20-95% Temperature 32° F – 122° F

Display

Display Mode	15”HD LCD display
Resolution	1024 x 768 RGB
Power	DC 12V, 5A

Camera

Image Device	CCD
Resolution	420 TV lines
Effective Pixels	NTSC: 510(H) x 492(V)
Operating Temperature	32 - 122°F
Lens	3.6mm/6.0mm
White Balance	Automatic
Signal/Noise Ratio	> 48 dB
Gain Control	Automatic
Backlight Compensation	Automatic
Viewing Angle	60/40 degrees
Color	Yes
Indoor/Outdoor	Both
Number of Infrared LEDs	12
Night Vision Distance	Up to 50 ft

First Alert®

Warranty

PRODUCT LIMITED WARRANTY

BRK Brands, Inc., ("BRK") the maker of First Alert® brand products warrants that for a period of one year from the date of purchase (the "Warranty Period"), this product will be free from defects in material and workmanship. BRK, at its sole option, will repair or replace this product or any component of the product found to be defective during the Warranty Period. Replacement or repair will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty.

This warranty is valid for the original retail purchaser only from the date of initial retail purchase and is not transferable. In order to obtain warranty service, you must keep the original sales receipt and proof of purchase in the form of the UPC code from the package. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

WARRANTY EXCLUSIONS

Parts and Labor: 1 year limited (warranted parts do not include bulbs, LEDs, and batteries)

This warranty does not apply to bulbs, LEDs, and batteries supplied with or forming part of the product.

This warranty is invalidated if non- BRK accessories are or have been used in or in connection with the product or in any modification or repair is made to the product.

This warranty does not apply to defects or damages arising by use of the product in other than normal (including normal atmospheric, moisture and humidity) conditions or by installation or use of the product other than in strict accordance with the instructions contained in the product owner's manual.

This warranty does not apply to defects in or damages to the product caused by (i) negligent use of the product, (ii) misuse, abuse, neglect, alteration, repair or improper installation of the product, (iii) electrical short circuits or transients, (iv) usage not in accordance with product installation, (v) use of replacement parts not supplied by BRK, (vi) improper product maintenance, or (vii) accident, fire, flood or other Acts of God.

This warranty does not cover the performance or functionality of any computer software included in the package with the product. BRK makes no warranty that the software provided with the product will function without interruption or otherwise be free of anomalies, errors, or "Bugs." This warranty does not cover any costs relating to removal or replacement of any product or software installed on your computer.

BRK reserves the right to make changes in design or to make additions to or improvements in its products without incurring any obligations to modify any product which has already been manufactured. BRK will make every effort to provide updates and fixes to its

software via its website. This warranty does not cover any alteration or damage to any other software that may be or may become resident on the users system as a result of installing the software provided. This warranty is in lieu of other warranties, expressed or implied, and BRK neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of the product. In no event shall BRK be liable for any special or consequential damages arising from the use of the product or arising from the malfunctioning or non-functioning of the product, or for any delay in the performance of this warranty due to any cause beyond its control.

BRK does not make any claims or warranties of any kind whatsoever regarding the product's potential, ability, or effectiveness to prevent, minimize, or in any way affect personal or property damage or injury. BRK is not responsible for any personal damage, loss, or theft related to the product or to its use for any harm, whether physical or mental related thereto. Any and all claims or statements, whether written or verbal, by salespeople, retailers, dealers, or distributors to the contrary are not authorized by BRK, and do not affect this provision of the warranty.

BRK's responsibility under this, or any other warranty, implied or expressed, is limited to repair, replacement or refund, as set forth above. These remedies are the sole and exclusive remedies for any breach of warranty. BRK is not responsible for direct, special, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including but not limited to, loss profits, downtime, goodwill, damage to or replacement of equipment and property and any costs of recovering, reprogramming or reproducing any program or data stored in or used with a system containing the product accompanying software.

BRK does not warrant the software will operate with any other software except that which is indicated. BRK cannot be responsible for characteristics of their party hardware or software which may effect the operation of the software included.

Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above Warranty Period. Some states, provinces, or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state, or province to province, or jurisdiction to jurisdiction.

OBTAINING SERVICE

If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 AM – 5:00 PM Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling.

After contacting the Consumer Affairs Division and it is determined that the product should be returned for Warranty Service, please mail the product to: BRK Brands, Inc., 3901 Liberty Street Road, Aurora, IL 60504-8122.